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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/765,023	01/26/2004	Richard M. Podhajny	525.1023-CIP	1299
20311 7590 03/14/2008 LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH			EXAMINER	
			MERCIER, MELISSA S	
15TH FLOOR NEW YORK,			ART UNIT	PAPER NUMBER
			1615	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/765,023 PODHAJNY, RICHARD M.

Office Action Summary	Examiner	Art Unit					
	MELISSA S. MERCIER	1615					
The MAILING DATE of this communication app			dress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CF8 1 13(36). In no event, however, may a reply be timely filed after SIX (6) MONTH'S from the making date of this communication.  If NO period or may by a specified above, the maximum statutory period over apply and vivil expires SIX (6) MONTH'S from the making date of this communication.  If NO period or may by a specified above, the maximum statutory period vivil expires SIX (6) MONTH'S from the making date of this communication. The specified of the communication of the specified of the specified of the communication between MARIONED (36) USC (5: 133).  Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any examed pattent term adjustments. See 37 CF8 1, 70(4).							
Status							
1) Responsive to communication(s) filed on 23 January 2008.							
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1.2.4.5 and 7-30 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	an nom condition.						
6) Claim(s) 1-2, 4-5, 7-30 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
l ''' '	_						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc		Evaminar					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct			FR 1 121(d)				
11) The oath or declaration is objected to by the Ex		•					
,	animor. Note the attached office	racion or form	. 0 102.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	_						
Notice of References Cited (PTO-892)    Notice of Draftsperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No(s)/Mail D</li> </ol>						
3) Information Disclosure Statement(s) (PTO/S6r08)	5). Notice of Informal F	atert.Application					

Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/S6/08)	5). Notice of Informal Patent Application.	
Paper No(s)/Mail Date	6) Other: .	

Art Unit: 1615

### DETAILED ACTION

## Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claims 1-2, 4-6, and 7-30 are pending in this application. Rejections and/or objections not reiterated from previous Office Actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-2, 4-5, and 7-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what kind of solvent applicant is claiming by solvent based dispersion. Water is considered a solvent. Clarification is requested. After a review of the specification, the examiner was not able to determine what kind of solvents are used other than water.

Page 3

Application/Control Number: 10/765,023

Art Unit: 1615

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-2, 7-8, 14-18, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570).

Yokota discloses an organic solvent soluble mucopolysaccharide consisting of an ionic complex of at least one mucopolysaccharide and a quaternary phosphonium, an antibacterial antithrombogenic composition comprising said organic solvent-soluble mucopolysaccharide and an organic polymer material, an antibacterial antithrombogenic composition comprising said organic solvent-soluble mucopolysaccharide and an antibacterial agent, and to a medical material comprising said organic solvent-soluble mucopolysaccharide. The organic solvent-soluble mucopolysaccharide, and the antibacterial antithrombogenic composition and medical material containing the same, of the present invention, can easily impart antithrombogenicity and antibacterial property to a polymer to be a base material, which properties being maintained not only immediately after preparation of the material but also after long-term elution (Abstract). The organic polymer material may include polyurethane and polyamide, which are both disclosed as preferred polymers (column 3, lines 42-45). The antibacterial agent may include silver zeolite, which is the preferred material (column 3, lines 56-59). The antibacterial agent may be present in the amount of 0.1 to 50 parts by weight relative to 100 parts by weight of the polymer material (column 3, lines 60-64). The composition is

Art Unit: 1615

disclosed as being an aqueous solution or an aqueous dispersion or in the alternative of water; a weak acidic buffer may be used (column 5, lines 23-45).

Regarding claims 7-8, While there is no specific teaching of the acid number of the polymer selected, it is noted that the specification discloses both polyurethane and polyamide as preferred polymers with acid numbers less than 200 (specification, paragraphs 0030-0032).

Yokota further discloses methods of imparting antibacterial properties by coating a medical material with the composition described above (column 4, lines 30-35 and 42-47). Coating methods include spray, drip, and the like (column 7, lines 40-42).

With regard to the pore size of the zeolite it is the position of the examiner that such limitations so not impart patentability over the prior art. Applicant ahs expressed in the specification that the limitations such as particle size and pore size are merely the preferred embodiments, and are hence non-critical to the overall patentability of the invention. When taken into consideration that the reference achieves the same goal of a coated material possessing antimicrobial qualities, the particular limitations such as particle size, and pore size are non-critical and would be obvious to a skilled artisan.

Barring a showing of unexpected results regarding the pore size of the claimed invention, the claimed invention cannot be deemed patentably distinct over the prior art.

With regard to the orientation of the coating layer (discontinuous, continuous) in claim 21 and the thickness of the coating layer, in claims 24-25, it is the position of the examiner that the limitation is non-critical to the patentability of the invention. It is also the position of the examiner that the orientation of the layer (discontinuous or

Art Unit: 1615

continuous) would be well within the level of ordinary skill in the art to adjust. It would be obvious to a skilled artisan to apply the layer in whichever pattern best suited the application of the packaging material. These two limitation can be achieved through routine experimentation, and modification by those of ordinary skill it the art.

With regard to claim 22-23 that the method of printing is preformed by a particular method, these claims are deemed a product-by-process claim and do not distinguish the claim from the prior art. The prior art provides a composition with identical components, although produced by a different process; the burden is shifted to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. See In re Marosi, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983).

Applicant is reminded that where the general conditions of the claims are met, burden is shitted to applicant to provide a patentable distinction. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. See In re Aller, 220 F.2d 454 105 USPQ 233,235 (CCPA 1955).

Claims 1-2, 7-12, 14-19, 21-25, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US patent 5,280,054).

Sakai disclose a coating composition for use in hydrophilic treatment which is capable of forming a film having improved durability of hydrophilic properties, producing little or no water-eluted material therefrom and having improved mildew proofing

Art Unit: 1615

properties (column 2, lines 36-42). The composition comprises an aqueous silica dispersion comprising acrylate polymers, such as methyl acrylate, ethyl acrylate, propyl acrylate, for example (column 5, lines 10-33). Fungiproof agents, including silver zeolite, can be included (column 11, lines 3-32). The amount of the fungiproof agent is in the range of 1-30% by weight based on the total solids content of the composition (column 111, lines 33-35). The coating composition may also include pH'ing agents. The coating composition can be applied by convention coating methods including dip coating, shower coating, spray coating, roll coating and the like (column 11, lines 11-60-62). It is further disclosed the coating composition is applied by preparing an aqueous bath of the coating composition, which would read on applicant's water-based limitation. The coating has a thickness of 0.2 to 5u (column 12, lines 20-25). The examiner has interpreted printing to including coating techniques disclosed by Sakai.

With regard to the pore size of the zeolite it is the position of the examiner that such limitations so not impart patentability over the prior art. Applicant ahs expressed in the specification that the limitations such as particle size and pore size are merely the preferred embodiments, and are hence non-critical to the overall patentability of the invention. When taken into consideration that the reference achieves the same goal of a coated material possessing antimicrobial qualities, the particular limitations such as particle size, and pore size are non-critical and would be obvious to a skilled artisan.

Barring a showing of unexpected results regarding the pore size of the claimed invention, the claimed invention cannot be deemed patentably distinct over the prior art.

Art Unit: 1615

With regard to the pH of the dispersion, Sakai discloses the use of pH'ing agents; therefore, barring a showing of criticality to the functionality of the dispersion for its intended function, the pH range would be determined through routine experimentation.

With regard to the orientation of the coating layer (discontinuous, continuous) in claim 21 and the thickness of the coating layer, in claims 24-25, it is the position of the examiner that the limitation is non-critical to the patentability of the invention. It is also the position of the examiner that the orientation of the layer (discontinuous or continuous) would be well within the level of ordinary skill in the art to adjust. It would be obvious to a skilled artisan to apply the layer in whichever pattern best suited the application of the packaging material. These two limitation can be achieved through routine experimentation, and modification by those of ordinary skill it the art.

Claims 4-5, 20, 26-28, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570) in view of Lindgren et al. (US Patent 5,603,997).

The teachings of Yokota are discussed above and applied in the same manner.

Yokota does not disclose the pH of the dispersion, the hydrophobic of the zeolite coating or substrate to which the film is applied to include the substrates of the instant claims.

With regard to claims 4-5, Lindgren discloses zeolite particles reducing the undesirable tastes can be added within a very broad pH range, since the zeolite particles are crystalline and thus an inert nature. A good effect is thus obtained when

Art Unit: 1615

the pH of the suspension before dewatering lies into eh range of about 3.0 up to about 10.0 (column 9, lines 13-25).

With regard to the hydrophobic of the zeolite-coating compound, it is within the level of skill in the art to prepare a hydrophobic coating composition. Also the application and use of such coatings are known in the art as seen in Lindgren et al. (Abstract).

Lindgren further discloses the packaging material may include paper, board, paperboard, plastic, aluminum foil, and textile fabrics, or any combination thereof (column 3, lines 27-37).

It would have been obvious to a person of ordinary skill in the art to utilize a hydrophobic zeolite coating since, the art of food packaging preparation hydrophobic metallic zeolite compositions are used to repel water and reduce mildew on the resulting packaging material (column 5, lines 13 - 47). One of ordinary skill in the art would have a reasonable expectation of success since both references teach the use of zeolites in coatings of packaging materials.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Oda et al. (US Patent 5,792,793).

Due to the new grounds of rejection, this action is made Non-Final. Any inquiry concerning this communication or earlier communications from the examiner should be

Art Unit: 1615

directed to MELISSA S. MERCIER whose telephone number is (571)272-9039. The examiner can normally be reached on 7:30am-4pm Mon through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Melissa S Mercier/ Examiner, Art Unit 1615 /Michael P Woodward/ Supervisory Patent Examiner, Art Unit 1615